

Substitute for form 1449 A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number : 09/935,219

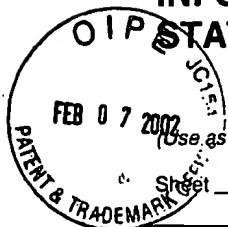
Filing Date: 08/22/2001

First Named Inventor: Beams

Group Art Unit: 2122

Examiner Name: n/a

Attorney Docket Number: 05222.00185



(Use as many sheets as necessary)

Sheet 1 of 14

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
MEAL		US-4,622,013	11/11/1986	Cherchio	
MEAL		US-4,874,784	10/17/1989	Clancey	
MEAL		US-4,981,766	01/02/1990	Derr, et al.	
MEAL		US-4,931,950	06/05/1990	Isle, et al.	
MEAL		US-4,964,077	10/16/1990	Eisen, et al.	
MEAL		US-4,977,529	12/11/1990	Gregg, et al.	
MEAL		US-5,002,491	03/26/1991	Abrahamson, et al.	
MEAL		US-5,170,464	12/08/1992	Hayes, et al.	
MEAL		US-5,189,402	02/23/1993	Naimark, et al.	
MEAL		US-5,208,745	05/04/1993	Quentin, et al.	
MEAL		US-5,208,898	05/04/1993	Funabashi, et al.	
MEAL		US-5,239,617	08/24/1993	Gardner, et al.	
MEAL		US-5,259,766	11/09/1993	Sack et al.	
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MEAL		US-5,311,422	05/10/1994	Loftin, et al.	
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MEAL		US-5,326,270	07/05/1994	Ostby, et al.	
MEAL		US-5,359,701	10/25/1994	Chiang, et al.	
MEAL		US-5,372,507	12/13/1994	Goleh	

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FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
MEAL		EP 0 689 132 A2	12/27/95	Laffra		
MEAL		EP 0 710 942 A2	05/08/96	Siefert		
MEAL		EP 0 710 942 A2	05/08/96	Siefert		
MEAL		EP 0 798 655 A2	10/01/97	Jervis, et al.		
MEAL		WO 00/04478	01/27/00	Jonsson		
MEAL		WO 97/44766	11/27/97	Cook		
MEAL		WO 98/03953	01/29/98	Simmons		
MEAL		WO 98/25251	06/11/98	Ho		
MEAL		WO 98/32109	07/23/98	De Lange		

Examiner Signature

Michael R. Aron

Date Considered

9/24/04

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¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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 Examiner Name: n/a
 Attorney Docket Number: 05222.00185

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Sheet 2 of 14

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
MBAL		"Evaluating the effectiveness of feedback in SQL-tutor", IEEE, proc. Int. workshop IWALT, pp 143-144	
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MBAL		"Goal-Based Scenarios and the Problem of Situated Learning: A Commentary on Andersen Consulting's Design of Goal-Based Scenarios," Educational Technology, Nov.-Dec. 1994	
MBAL		"DDD--A Free Graphical Front-End for UNIX Debuggers," Jan. 1996, ACM Sigplan Notices, Vol. 31, No. 1, pp. 22-27	
MBAL		"Automated Training of Legal Reasoning" at http://www.bileta.ac.uk/94papers/muntjew.html	
MBAL		"The Virtual Learning Environment System," 28th Annual Frontiers in Education Conference, Conference Proceedings, Vol. 2, Nov. 4-7, 1998	
MBAL		"Developing a Design System into an Intelligent Tutoring System," Int'l J. Engr. Eud., Vol. 13(5), pp-341-46, Dec. 1997	
MBAL		"CAPTOR a model for delivering web based intelligent tutoring system technology", IEEE Proc. DASC vol. 2, pp 5.C.4.1-5	

Examiner Signature	<i>Matthew B. Hall</i>	Date Considered	9/24/04
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		Number - Kind Code ² (# known)			
AKA		US-5,395,243	03/07/1995	Lutbin, et al.	
AKA		US- 5,441,415	08/15/1995	Lee, et al.	
AKA		US- 5,491,743	02/13/1996	Shilo, et al.	
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AKA		US- 5,673,369	09/30/1997	Kim	
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AKA		US- 5,696,885	12/09/1997	Hekmatpour	
AKA		US- 5,701,400	12/23/1997	Amado	
AKA		US- 5,720,007	02/17/1998	Hekmatpour	
AKA		US- 5,727,161	03/10/1998	Purcell, Jr.	

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FOREIGN PATENT DOCUMENTS

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First Named Inventor: Beams

Group Art Unit: 2122

Examiner Name: n/a

Attorney Docket Number: 05222.00185

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Sheet 4 of 14**OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
MBAL		"Bridging the Virtual and the Physical: The InterSim as a Collaborative Support Interface," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 556-58, Dec. 1997	
MBAL		"Task-Oriented Learning on the Web"; Innovations in Education and Training International, Vol. 36, No. 1, Feb. 1999	
MBAL		"Applications of BrainMaker Neural Network to stocks, business, medical, manufacturing" at www.calsci.com/Applications.html	
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MBAL		"Practical methods for automatically generating typed links", ACM Hypertext, pp 31-41	
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MBAL		"Teaching Real-World Analysis Skills for Goal-Based Scenario," pp. 68-74	

Examiner Signature	<i>[Signature]</i>	Date Considered	9/24/04
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		Number - Kind Code ² (if known)			
WBA		US-5,727,950	03/17/1998	Cook, et al.	
WBA		US- 5,745,652	04/28/1998	Bigus	
WBA		US- 5,772,446	06/30/1998	Rosen	
WBA		US- 5,779,468	07/14/1998	Ho, et al.	
WBA		US- 5,788,508	08/04/1998	Lee, et al.	
WBA		US- 5,791,907	08/11/1998	Ramshaw, et al.	
WBA		US- 5,799,151	08/25/1998	Hoffer	
WBA		US- 5,799,292	08/25/1998	Hekmatpour	
WBA		US- 5,806,056	09/08/1998	Hekmatpour	
WBA		US- 5,810,747	09/22/1998	Brudney, et al.	
WBA		US- 5,822,745	10/13/1998	Hekmatpour	
WBA		US- 5,823,781	10/20/1998	Hitchcock, et al.	
WBA		US- 5,823,788	10/20/1998	Lemelson, et al.	
WBA		US- 5,835,683	11/10/1998	Corella, et al.	
WBA		US- 5,868,575	02/09/1999	Kuczewski	
WBA		US- 5,870,768	02/09/1999	Hekmatpour	
WBA		US- 5,875,437	02/23/1999	Atkins	
WBA		US- 5,889,845	03/30/1999	Staples, et al.	
WBA		US- 5,893,123	04/06/1999	Tuinenga	
WBA		US- 5,911,581	06/15/1999	Knight Jeremy, et al.	

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MBAY		"Artificial Intelligence and Mathematics Education" at http://www.rand.org/hot/mcarthur/Papers/aied.html	
MBAY		"The Roles of Artificial Intelligence in Education: Current Progress and Future Prospects" at http://www.nib.unicamp.br/recursos...education/intelligent-tutoring.html	
NEA		"WITS: A Reusable Architecture for a VR-Based ITS" at http://advleam.lrdc.pitt.edu/its-arch/papers/fam.html	
MBAY		"Brainmaker" at www.npiec.on.ca/~echoscan/28-04.htm	
MBAY		"News for ESAP" at www.hops.wharton.upenn.edu/~esap/news.html	
NEA		"Learning with Computers," May 1994, Accountancy Vol. 113, No. 1209, pp. 60-64	
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MBAY			
MBAY		"Microworlds and Simuworlds: Practice Fields for the Learning Organization," Spring 1996, Organizational Dynamics Vol. 24, No. 4, pp. 36-49	
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MBAY		"Development of an Integrated Simulator and Real Time Plant Information System," Advances In Operational Safety of Nuclear Power Plants, Proceedings of an International Symposium 1996.	

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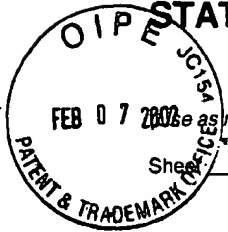
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MBAL		US- 6,003,021	12/14/1999	Zadik, et al.	
MBAL		US- 6,015,348	01/8/2000	Lambright, et al.	
MBAL		US- 6,016,486	01/18/2000	Nichols	
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MBAL		US- 6,067,538	05/23/2000	Zorba, et al.	
MBAL		US- 6,073,127	06/06/2000	Lannert, et al.	
MBAL		US- 6,085,184	07/04/2000	Bertrand, et al.	

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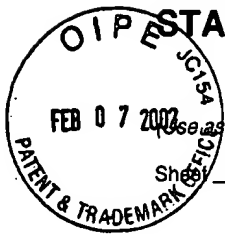
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MEAL		"A Goal-Centered Architecture for Intelligent Tutoring Systems," Proc. Of 7th World Conf. On Artificial Intelligence in Education, pp. 307-314, Aug. 1995	
MEAL		"Smart Avatars in JackMOO," Proceedings of the 1999 IEEE Conference on Virtual Reality, pp. 156-63	
MEAL		"Embedding an Intelligent Tutoring System in a Business Gaming-Simulation Environment," Proc. Of the 1994 Winter Simulation Conference, pp. 1399-1406, Dec. 1994	
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MEAL		"Persistent Issues in the Application of Virtual Environment Systems to Training," August 1996, Proceedings. Third Annual Symposium on Human Interaction with Complex Systems, IEEE, pp. 124-32.	
MEAL		"The Lisp Tutor," Byte, pp. 159-75, Apr. 1985	
MEAL		"Pedagogical, natural language and knowledge engineering techniques in SOPHIE I, II, and III," in Intelligent Tutoring Systems, D. Sleeman & J.S. Brown eds., pp. 227-82, Dec. 1982	
MEAL		Interactive Multimedia Distance Learning (IMDL): The Prototype of the Virtual Classroom, 1994.	
MEAL			
MEAL		"Understanding Organizational Dynamics of IT-Enabled Change: A Multipedia Simulation Approach," Winter 1997/1998, Journal of Mangement Information Systems: JMIS, Vol. 14, No. 3, pp. 109-140.	
MEAL		"Intelligent Computer-Aided Instruction: A Survey Organized Around System Components," Jan. 1989, IEEE Inc., New York, Vol. 49, No. 1, pp. 40-57.	

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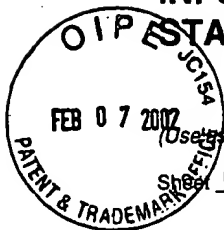
Application Number : 09/935,219

Filing Date: 08/22/2001
First Named Inventor: Beams
Group Art Unit: 2122
Examiner Name: n/a
Attorney Docket Number: 05222.00185

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Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
MEAL		"Conducting and Supporting a Goal-Based Scenario Learning Environment," Educational Technology, Nov.-Dec. 1994	
MEAL		"Interface design issue for advising giving expert systems", Comm. Of the ACM, vol 30, no. 1, pp14-31	
MEAL		"An Object-Oriented Architecture for Evolutional Development of Interactive Learning Environment with Coached Problem-Solving," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 592-94, Dec. 1997	
MEAL		"Architecture of an Intelligent Tutoring System on the WWW," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 39-46 Dec. 1997	
MEAL		"Socialized Collaborative Learning in Multimedia Virtual Worlds" URL: http://www.iscs.nus.edu.sg/labs/learning/leis/VRML.html ; viewed Feb. 16, 1999	
MEAL		Flexible Learning, Feb. 1998, Credit Union Management Vol. 21, No. 2, pp. 32-33+	
MEAL		"Teaching Through Case-Based Reasoning: An ITS Engine Applied to Business Communication," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 111-18 Dec. 1997	
MEAL		"Train with Less Pain," Oct. 13, 1997, Informationweek No. 652, pp. 150-154	
MEAL		"Virtual Learning: A Revolutionary Approach to Building a Highly Skilled Workforce," Autumn 1998, Personnel Psychology Vol. 51, No. 3, pp. 767-71	
MEAL			
MEAL		"Intelligent Tutoring Systems: An Overview" at http://www.intellectbooks.com/authors/lawler/its.htm	

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M. W. E. Beams

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Application Number : 09/935,219

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MBAL		"No More Boring CPE," July 1997, Accounting Technology, pp. 27-35	
MBAL		Computer Dictionary, 1997, pp. 264, 276, 383, 446, 462, 507.	
MBAL		"Rule-Based Programming with OPS5" at www.mkp.com/books_catalog/O-934613-51-6.asp	
MBAL		"From Computer-Assisted Instruction to Intelligent Tutoring Systems," J. Artificial Intelligence in Education, V. 2(3), pp. 39-50, Dec. 1997	
MBAL		"MUSE U.S. Patents" at www.muser.com/html/patents.html	
MBAL		"Distributed Intelligent Tutoring on the Web," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 482-89, Dec. 1997	
MBAL		"RadTutor: The Theoretical and Empirical Basis for the Design of a Mammography Interpretation Tutor," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 386-393 Dec. 1997	
MBAL		"Using the Wizard of Oz Technique to Prototype a Scenario-Based Simulation Tutor," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 458-65, Dec. 1997	
MBAL		"Using Planning Techniques to Provide Feedback in Interactive Learning Environments," Proc. Sixth Int'l Conf. On Tools with Artificial Intelligence," pp. 700-03, Nov. 1994	
MBAL		"An Electronic Infrastructure for a Virtual University," Communications of the ACM, Vol. 40, No. 9, Sep. 1997.	
MBAL		"Simulation Technology and Parallelism in Learning Environments" at http://www.to.utwente.nl/prj/min/Book/chapter1.htm	

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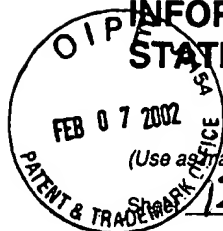
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MBA		"Engines for Education" URL: http://www.ils.nwu.edu/~e_for_e/nodes/I-M-INTRO-ZOOMER-pg.html ; viewed Feb. 15, 1999.	
MBA		"FinPlan System" at www.rrial.org.ru/FinPlan/	
MBA		"Enhancing Simulation Education with Intelligent Tutoring Systems," Proc. Of the 1996 Winter Simulation Conf., pp. 675-80, Dec. 1996	
MBA		"Computer Aided Instruction for Statistics: A Knowledge-Based Systems Approach," Int'l J. of Computers in Adult Education and Training, Vol. 5(1), pp. 3-14.	
MBA		"Teaching with the Internet" 1998, JAI Press Inc., USA. Vol no. 3, pp 217-222	
MBA		"Development of a Simulation-Based Intelligent Tutoring System for Assisting PID Control Learning," Jan. 1994, IEICE Transactions on Information and Systems, E77-D, No. 1, Tokyo Japan, pp. 108-17.	
MBA		"Authoring Intelligent Tutoring Systems: An Analysis of the State of the Art" at http://www.cs.umass.edu/~tmurray/papers/ATSummary/AuthTools.html	
MBA		Multimedia Training "Get Lemonade, Not a Lemon!" June 1997, Journal for Quality and Participation vol. 20, No. 3, pp. 22-26	
MBA			
MBA		"SMART Evaluation: Cognitive Diagnosis, Mastery Learning & Remediation," Proc. Of 7th World Conf. On Artificial Intelligence in Education, pp. 123-30, Aug. 1995	
MBA		"Decision Pro3.0" at www.vanguardsw.com/	

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MBAL		"A Fuzzy Logic-Based Intelligent Tutoring System," Information Processing 92, Vol. II, pp. 66-72, Dec. 1992.	
MBAL		"The SimQuest Authoring System for Simulation-Based Discovery Learning," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 79-86, Dec. 1997	
MBAL		"A Browser-Based System to Support & Deliver DE," 28th Annual Frontiers in Education Conference, Conference Proceedings, Vol. 1, Nov. 4-7, 1998	
MBAL		"Goal-Based Scenarios and Business Training: A Conversation with Roger C. Schank," Educational Technology, Nov.-Dec. 1994	
MBAL		"Automate Your Business Plan" at www.business-plan.com/screen2.html	
MBAL		"Kiplinger TaxCut Press Releases" at http://www.taxcut.com/taxcut/98press_releases/pr98_nowshipping.html	
MBAL		"TurboTax Deluxe Product Information" at http://www.intuit.com/turbotax/prodinfo/tldlx.html	
MBAL		"Why Should the Teens Have All the Best Games? Management Skill with Oil, Health, Housing Games," Computergram Int'l, June 176, 1998	
MBAL		"Template Software Business Simulator, Chapter 8, August 1997	
MBAL		"Template Software Workflow Simulator, Chapter 8, June 1998	
MBAL		"Goal-Based Scenarios", Technical Report # 36, Northwestern University. The Institute for the Learning Sciences, December 1992, pp. 1-30	

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NRB		"Eight Goal-Based Scenario Tools", Technical Report # 67, Northwestern University, The Institute for the Learning Sciences, January 1996, pp. 1-37	
NRB		"A Role for AI in Education: Using Technology to Reshape Education", Northwestern University, The Institute for the Learning Sciences, Journal of Artificial Intelligence in Education, Winter 1990, January 1990, pp. 1-24 and 2 pgs. of references	
NRB		"The Design of Goal-Based Scenarios", Technical Report # 39, Northwestern University, The Institute for the Learning Sciences, March 1993, pp. 1-58	

Examiner Signature	<i>[Signature]</i>	Date Considered	9/24/04
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